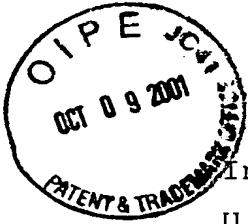


10-26-01



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re

U.S. application: Pradip MITRA

For: MULTI-WAVELENGTH HIGH BANDWIDTH
COMMUNICATION RECEIVER AND SYSTEM

U.S. Serial No.: 09/903,330

Filed: July 11, 2001

Group Art Unit: 2633

Examiner: To Be Assigned

Assistant Director
for Patents
Washington, D.C. 20231

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Technology Center 2600

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October 3, 2001
Date of Deposit

James W. Williams
Name of Applicant, Assignee, or Registered Representative

James W. Williams
Signature

October 3, 2001
Date of Signature

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

In compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, Applicant wishes to bring the following items to the attention of the Examiner. A copy of each document is enclosed for the convenience of the Examiner.

No representation is made, and no representation is intended, that more relevant material does not exist, or that the order of presentation of this material in any way reflects its relative pertinence. The references cited below are not intended to constitute an admission of any kind. Specifically, this presentation is not an admission that the items listed below are properly citable against the above-identified application.

- (1) Duboz, U.S. Patent No. 5,818,066, issued October 6, 1998;
- (2) Brouns, U.S. Patent No. 5,773,831, issued June 30, 1998;
- (3) Kaushik et al., U.S. Patent No. 5,726,805, issued March 10, 1998;
- (4) Schimert, U.S. Patent No. 5,539,206, issued July 23, 1996;
- (5) Choi, U.S. Patent No. 5,485,015, issued January 16, 1996;
- (6) McKee et al., U.S. Patent No. 5,479,018, issued December 26, 1995;
- (7) Spears, U.S. Patent No. 5,455,421, issued October 3, 1995;
- (8) Bryan et al., U.S. Patent No. 5,389,797, issued February 14, 1995;
- (9) Hunt et al., U.S. Patent No. 5,315,128, issued May 24, 1994;
- (10) J.-H. LEE, S. S. LI, M. Z. TIDROW, W. K. LIU , *Investigation of multi-color, broadband quantum well infrared photodetectors with digital graded superlattice barrier and linear-graded barrier for long wavelength infrared applications, Infrared Physics & Technology, Vol. 42, pp. 123-134, (2001);*

- (11) Lucent Technologies Bell Labs Innovations Technical Paper, *Arrayed Waveguide Grating Multiplexer/Demultiplexer*, 6 pages (January 2000);
- (12) H. C. LIU, *Quantum Well Infrared Photodetector Physics and Novel Devices*, Intersubband Transitions in Quantum Wells, Physics and Device Applications I, Semiconductors and Semimetals, Vol. 62, cover page and pp. 129-196 (2000);
- (13) Feng-Qi LIU, Ding DING, Bo XU, Yong-Zhao ZHANG, Quan-Sheng ZHANG, Zhan-Guo WANG, De-Sheng JIANG, Bao-Quan SUN, *Strain-compensated quantum cascade lasers operating at room temperature*, Journal of Crystal Growth, Vol. 220, pp. 439-443 (2000);
- (14) Jung-Hee LEE and Sheng S. LI, *Quantum-well infrared photodetectors with digital graded superlattice barrier for long-wavelength and broadband detection*, American Institute of Physics, Vol. 75, No. 20, 3 pages (1999);
- (15) Alessandro TREDICUCCI, Claire GMACHI, Federico CAPASSO, Deborah L. SIVCO, Albert L. HUTCHINSON and Alfred Y. CHO, *A multiwavelength semiconductor laser*, Nature, Vol. 396, pp. 350-353 (November 26, 1998);

- (16) Ivars MELNGAILIS, William E. KEICHER, Charles FREED, Stephen MARCUS, Brian E. EDWARDS, Antonio SANCHEZ, Tso Yee FAN and David L. SPEARS, *Laser Radar Component Technology*, Proceedings of the IEEE, Vol. 84, No. 2, (February, 1996);
- (17) Jerome FAIST, Federico CAPASSO, Deborah L. SIVCO, Carlo SIRTORI, Albert L. HUTCHINSON, Alfred Y. CHO, *Quantum Cascade Laser*, Science, Vol. 264, pp. 553-556 (April 22, 1994);
- (18) C. C. BARRON, C. J. MAHON, B. J. THIBEAULT, G. WANG, W. JIANG, L. A. COLDREN and J. E. BOWERS, *Resonant-cavity-enhanced pin photodetector with 17GHz bandwidth-efficiency product*, Electronics Letters, Vol. 30, No. 21, pp. 1796-1797 (October 13, 1994); and
- (19) T. WIPIEJEWSKI, K. PANZLAFF, K. J. EBELING, *Resonant wavelength selective photodetectors*, Microelectronic Engineering, Vol. 19, pp. 223-226 (1992).

Applicant considers the invention to be distinguishable over the above-cited documents.

As this Information Disclosure Statement is being filed before the receipt of the first Office Action, no fee is incurred. However, if it should be determined that a fee is required, please charge any required fee (other than the

issue fee) during the pendency of this application to Sidley Austin Brown & Wood's Deposit Account No. 18-1260. Please credit any overpayment to Deposit Account No. 18-1260.

Respectfully submitted,

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